

**AsCA 2016**  
14th Conference of the Asian Crystallographic Association  
4-7 December 2016, Hanoi, Vietnam


**SUNWAY UNIVERSITY**

**Phosphanegold(I) Thiolates:  
Intramolecular Au...O vs Au... $\pi$  Interactions**

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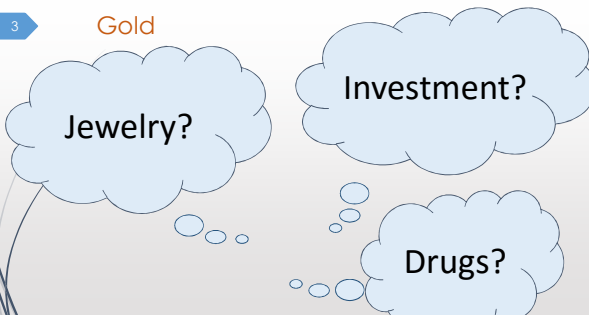
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2 Gold



You

3 Gold

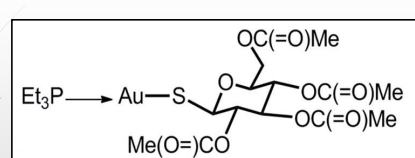


4 Gold

Phosphanegold(I) thiolates:

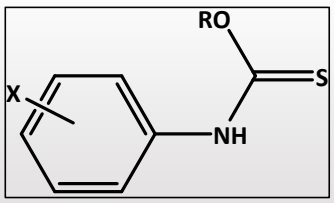
- Au... $\pi$  Interactions
- Au...O Interactions

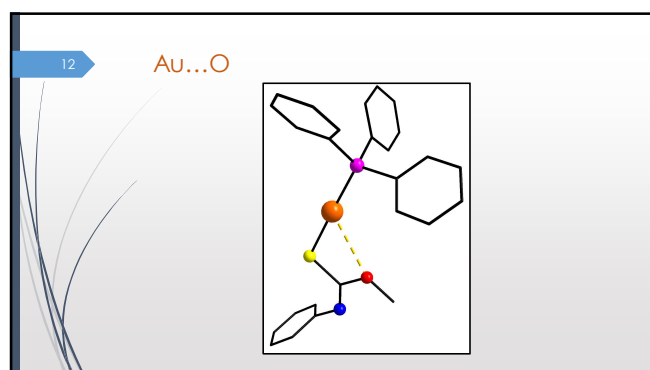
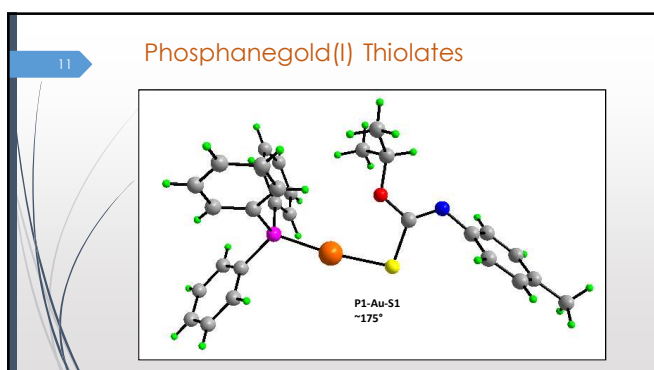
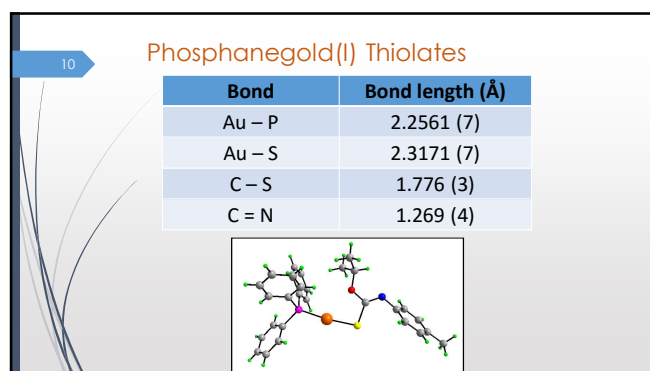
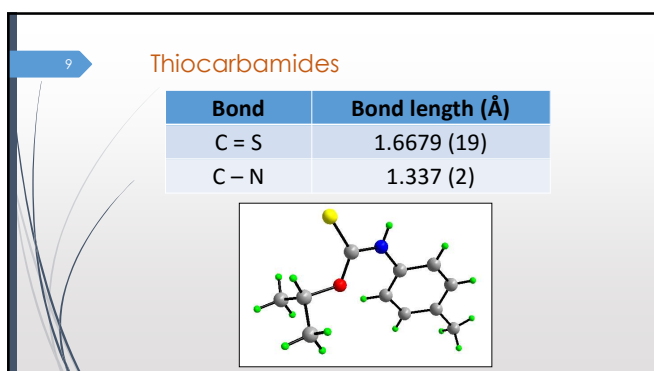
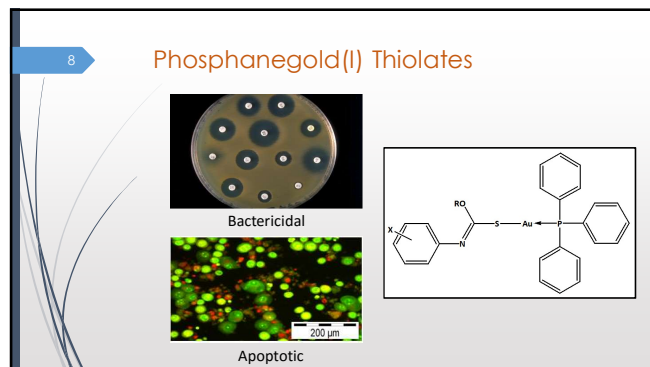
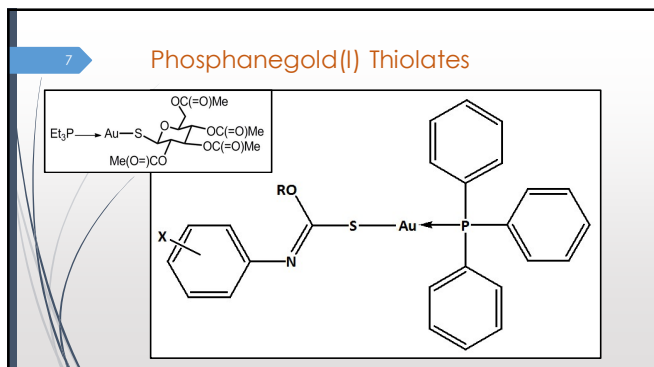
5 Auranofin

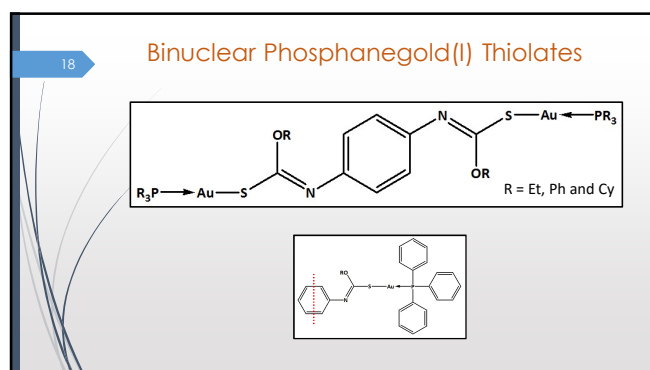
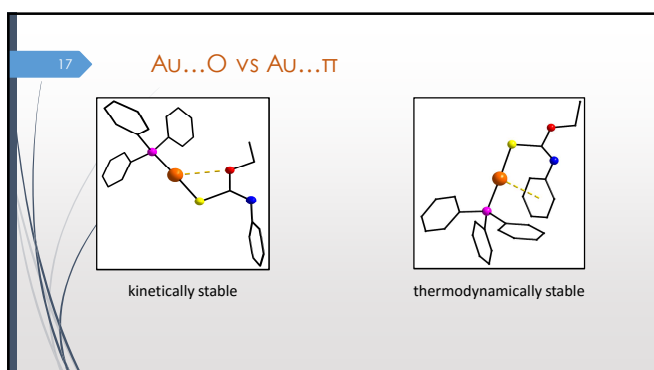
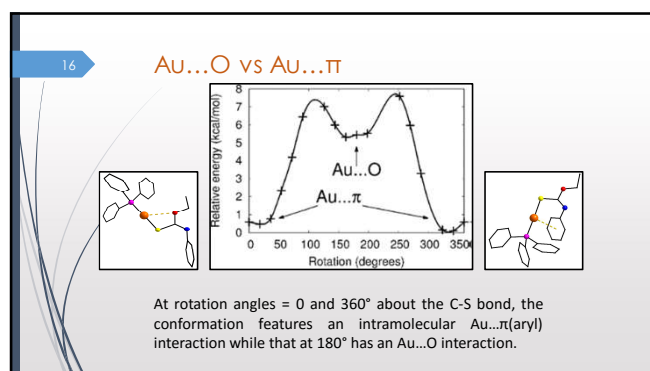
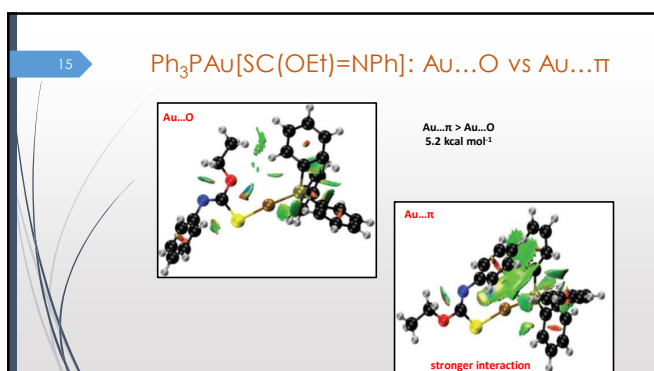
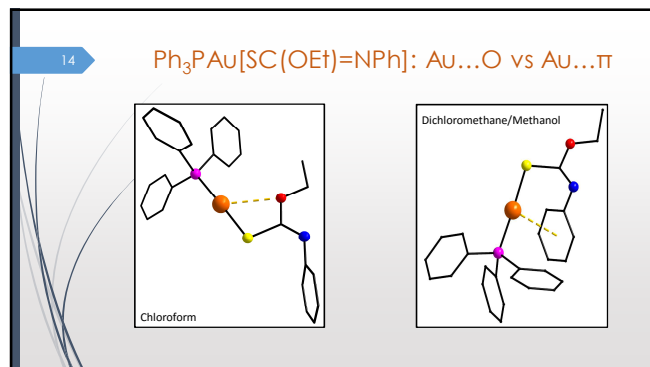
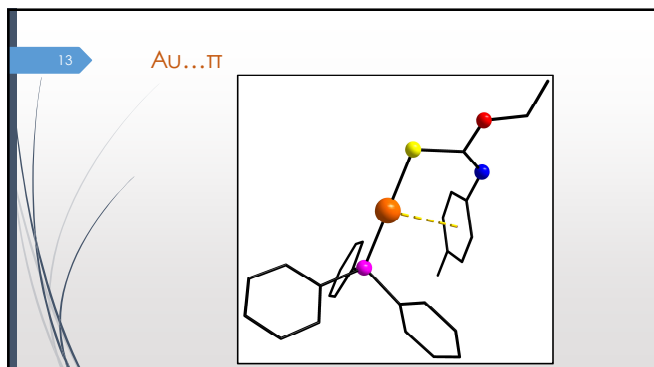


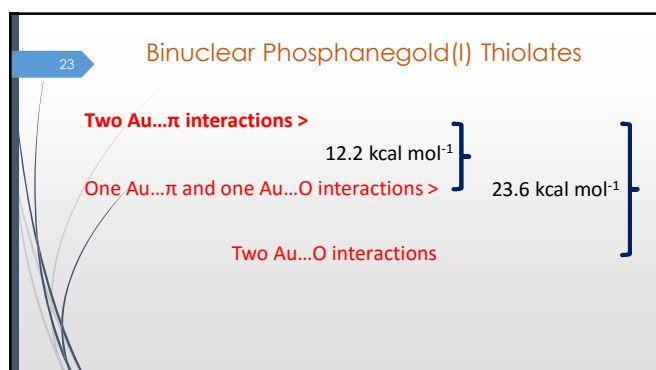
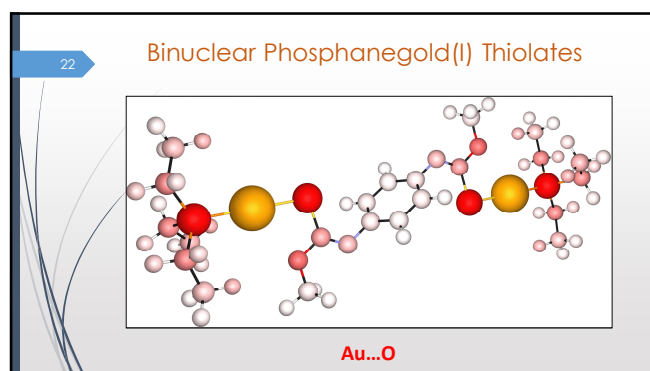
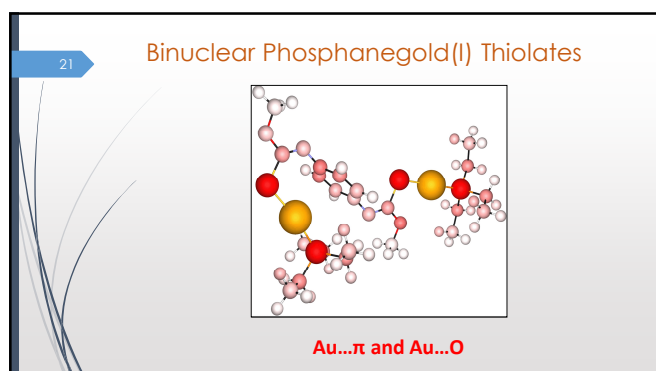
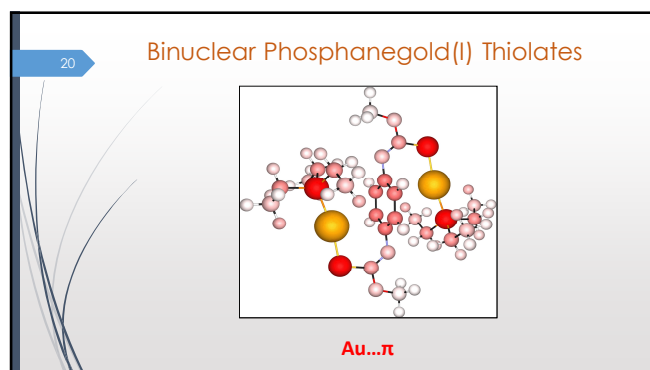
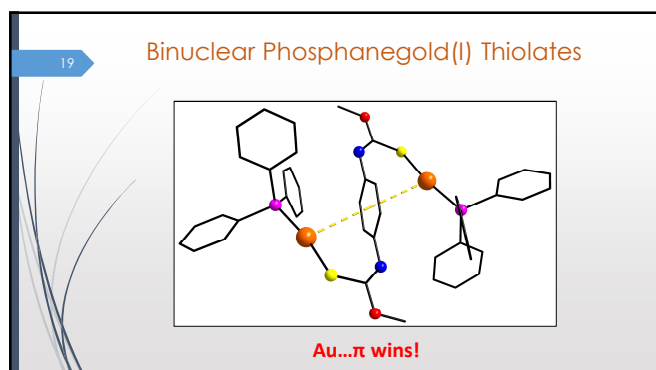
• Treatment of rheumatoid arthritis

6 Thiocarbamides









24 Summary

- Au...O interactions predominate in mononuclear phosphanegold(I) thiolates, Au... $\pi$  Interactions are however more stable!
- Au... $\pi$  Interactions impart higher stability to binuclear phosphanegold(I) thiolates



### Acknowledgement

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